CLAIMS

What is claimed is:

- 1 1. A method, comprising:
- 2 receiving a request for an information object at an address identified by a uniform resource
- 3 locator (URL); and
- 4 mapping the URL to a corresponding unicast address for the information object.
- 1 2. The method of claim 1 further comprising using the unicast address for the information object
- 2 as an anycast address.
- 1 3. The method of claim 1 wherein the request is received at an information object repository
- 2 selected without regard as to whether the information object is actually stored at the information
- 3 object repository.
- 1 4. The method of claims 3 further comprising instructing the selected information object
- 2 repository to obtain a copy of the information object.
- 1 5. The method of claim 3 wherein the information object repository is selected according to
- 2 specified performance metrics.
- 1 6. The method of claim 5 wherein the performance metrics comprise one or more of: average
- 2 delay from the selected information object repository to a source of the request, average processing
- 3 delay at the selected information object repository, reliability of a path from the selected
- 4 information object repository, available bandwidth in said path, and loads on the selected
- 5 information object repository.

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- 1 7. An computer system configured to map a uniform resource locator (URL) for an information
- 2 object to a network layer unicast address in response to a request for an information object at the
- 3 URL.
- 4 8. The computer system of claim 7 being further configured to use the unicast address as an
- 5 anycast address.
- 1 9. A network, comprising:
- 2 at lest one client configured to request an information object using a uniform resource
- 3 locator (URL); and
- a computer system configured to receive the request for the information object and to map
- 5 the URL into a network layer unicast address.
- 1 10. The network of claim 9 wherein the computer system is further configured to use the network
- 2 layer unicast address as an anycast address.
- 1 11. The network of claim 10 further comprising an information object repository coupled to
- 2 respond to the request for the information object.
- 3 12. The network of claim 11 wherein the information object repository is selected without regard
- 4 as to whether the information object is actually stored at the information object repository.
- 1 13. The network of claim 12 wherein the information object repository is selected according to
- 2 specified performance metrics.
- 1 14. The network of claim 13 wherein the performance metrics comprise one or more of: average
- 2 delay from the selected information object repository to a source of the request, average processing
- 3 delay at the selected information object repository, reliability of a path from the selected

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- 4 information object repository, available bandwidth in said path, and loads on the selected
- 5 information object repository.

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